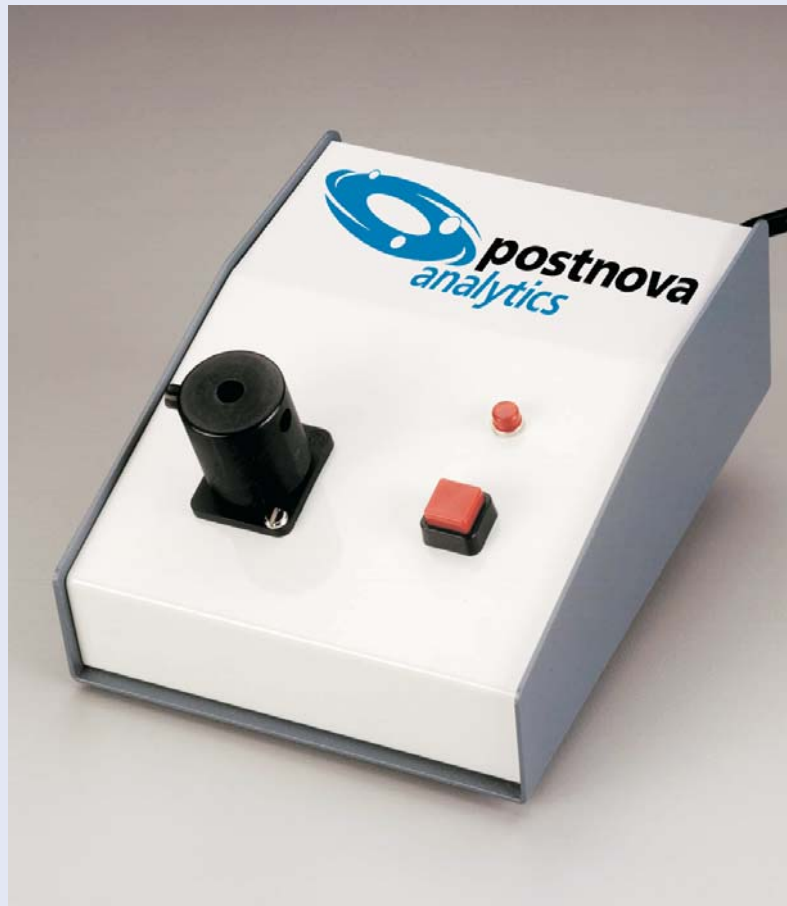


Window Maker



Removes Polyimide Coatings
from Fused Silica Capillaries
& Columns safe and reliable

www.postnova.com

Specifications

Power Requirements:
220/110 V; 50/60 Hz

Weight:
1,45 kg

Window Width:
Heating modules available for
1, 2, 4 and 7 mm

Advantages

- Fast, easy and safe to use
- No flame and/or harsh chemicals have to be used
- Reliable and consistent window for reproducible results
- can be used for all Polyimide coated FS and also some CEC and other coated columns

postnova Window Maker

This unique tool is highly recommended for stripping off polyimide from CE and fused silica capillaries to setup a specific detection window. A consistent 2 mm window is created without weakening the capillary which can happen when using a flame or harsh chemicals. Not recommended to use with CEC columns or non polyimide coated capillaries. Tabletop model is hands free and easy to use. Timer prevents prolonged burning and window "blurring".



Fig. 1: Example of "window" created by the Window Maker from postnova.

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FAQ's about the Window Maker

What is Polyimide?

Polyimide is an aromatic, linear polymer. It is not a true thermoplastic because it thermally degrades before its glass transition temperature and it is not cross linked. It is used on CE capillaries because it is solvent resistant, possesses barrier properties and performance at both high and low temperatures.

Does the replaceable heating module come with the unit when you order it or does it have to be ordered separately?

When you order the postnova Window Maker, it is shipped with a heating module. The replacement module is available in the event you need a new one.

Is it possible to make a window anywhere on the capillary?

Yes, you can make the window any place along the capillary.

What is the principle of polyimide removal?

The principle of removal is heat. By burning the polyimide at a predetermined temperature, it can be easily removed by hand wiping with a gentle solvent such as water or acetone.

Are there other parts or pieces that I need to use the postnova Window Maker?

No, it comes with a heating module that makes a 2 mm window. No other tools are needed. Other heating modules for different window sizes can be purchased separately.

Can the postnova Window Maker be used to make frits for CEC?

Yes, many customers use it to make frits for packing CEC Columns. It is best accomplished by purchasing the 1 mm Replacement Heating Module along with the Window Maker. The technique has been used by several scientists in the past. Never the less, we recommend to consult postnova for details on this application before you start.

Can the postnova Window Maker be used to remove the polyimide from the tips of the capillaries?

Yes, this is a highly recommended use of the Window Maker. By burning off 2 mm of the inlet and outlet ends of the capillaries, the injection precision of your CE unit will improve. It is believed that the reason for the improvement is prevention of the polyimide from swelling due to prolonged exposure to NaOH.

Can I use the Window Maker on all HPCE capillaries?

It can be used on all polyimide coated, bare fused silica capillaries. It can be used on many internally coated columns but you should test the column to make sure that the coating is not removed by the high heat produced to remove the polyimide. Contact the manufacturer of the HPCE column for more information. If the coating is removed on the inside of the capillary, it could disrupt the flow and give erroneous results.



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